	Application No.	Applicant(s)
Notice of Allowability	10/676,893 Examiner	RUSHING ET AL. Art Unit
we do of the training	CAMINIO	
	Binh C. Tat	2825
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apport or other appropriate communication GHTS. This application is subject to	plication. If not included will be mailed in due course. THIS
1. This communication is responsive to <u>04/04/07</u> .		
2. The allowed claim(s) is/are <u>1-3,7-12,15-18 and 20-25</u> .		
 3. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 	been received. been received in Application No cuments have been received in this of this communication to file a reply	national stage application from the
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the	on's Patent Drawing Review (PTO- s Amendment / Comment or in the C .84(c)) should be written on the drawin	Office action of action of the back) of
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. Notice of Informal P	atent Application
2. Notice of Praftperson's Patent Drawing Review (PTO-948)	6. ☑ Interview Summary	• •
3. Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Dat 7. ⊠ Examiner's Amendn	e <u>06/14/07</u> .
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Stateme	ent of Reasons for Allowance
of Biological Material	9. Other SUPE	JACK CHIANG) RVISOHY PATENT EXAMINER

DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Cindy Faatz (Reg. No. 39973) on 06/14/07.

The application has been amended as follow:

Claim 1 line 3, deleted "and".

Claim 1 line 7, after "layout"; insertion: --; representing information indicating connectivity between a selected vector and at least one of another vector and interface pins; providing drag and drop editing capabilities to move a vector, wherein, each vector includes a plurality of cell instances, and wherein, providing drag and drop editing capabilities includes providing drag and drop editing capabilities to move a group of cell instances; and providing an output capable of being used by a placement engine to produce an associated placement --.

Claims 4-6 have been canceled.

Claim 7 line 3, after "circuit"; insertion: --datapath--.

Claim 7 line 6, after "vectors"; insertion: --, the vector editor further to visually represent connectivity information indicating connections between a vector and one of another vector and an interface pin, the graphical interface further to provide drag and drop editing capabilities to

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move one or more of vectors, bit slices and connections, the vector editor to provide an output that is capable of being used by a placement engine to produce an associated placement --.

Claims 13-14 have been canceled.

Claim 15 line 1 change "claim 14" to -claim 12--.

Claim 18 line 4, deleted "and".

Claim 18 line 8, after "layout"; insertion: --; represent connectivity between a vector and one of another vector and an interface pin; provide drag and drop editing capabilities to move a vector; and provide an output that is capable of being used by a placement engine to produce an associated placement--.

Claim 19 has been canceled.

Claim 20 line 1 change "claim 19" to -claim 18--.

Claim 23 line 8, after "vectors"; insertion: --, the vector editor to represent connectivity between a vector and one of another vector and an interface pin, the vector editor to provide drag and drop editing capabilities to edit the vectors, bit slices and associated connectivity--.

Claim 26 has been canceled.

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Reasons for Allowance

The following is an examiner's statement of reasons for allowance:

Claims 1-3, 7-12, 15-18, and 20-25 are allowed because the prior art does not teach or suggest a method comprising: representing each vector associated with an integrated circuit datapath design as one of a row and a column in a graphical interface; representing each bit slice associated with the integrated circuit datapath design in an orthogonal manner to the vectors in the graphical interface, the corresponding vector and bit slice representation in the graphical interface being different than an associated physical layout; representing information indicating connectivity between a selected vector and at least one of another vector and interface pins; providing drag and drop editing capabilities to move a vector, wherein, providing drag and drop editing capabilities includes providing drag and drop editing capabilities to move a group of cell instances; and providing an output capable of being used by a placement engine to produce an associated placement and with the combination of all other features corresponding to the independent claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Binh C. Tat whose telephone number is 571 272-1908. The examiner can normally be reached on 7:30 - 4:00 (M-F).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Chiang can be reached on 571 272-7483. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tat Binh
Patent Examiner
June 21, 2007

SUPERVISORY PATENT EXAMINER